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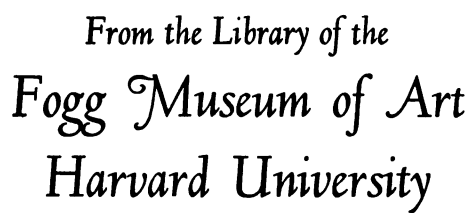
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DEPARTMENT OF SCIENCE AND ART
OF THE COMMITTEE OF COUNCIL ON EDUCATION.

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CONSTRUCTION,
ENGINEERING, AND MACHINERY.

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NOTICE.

The number of books on Construction, Engineering, and allied subjects contained in the Art Library is considerable, as shown by the present Classed List, which includes about 800 titles; it has not, however, been an object in forming the Library to attempt an exhaustive collection of such books, inasmuch as the majority are not characterised by the presence of fine art in the designs which they contain.

Those who desire to turn their attention to the more purely scientific aspect of the subjects enumerated here, will be enabled to do so by consulting the Science Library of the Department, which includes a collection of important works not coming within the scope of the Art Library.

Nevertheless as the subject is essential to architecture and in some of its aspects to other arts also; its range, being wide as shown by the annexed table of contents it is hoped this list may be of service to the Art Students for whose use it is primarily intended.

Much material that bears on the various subjects named in the contents is to be found in the pages of the many serial publications whose titles are given in Section I., "General" at p. 5. Some of these, as the "Architect," the "Builder," &c., now form large series of volumes to which only a general reference could be given; each volume is, however, fully indexed.

Included in the present list will be found books on Military Construction, selected mainly for the sake of their illustrations; also on Naval Architecture; and with these latter it has been found convenient to place all works illustrating shipping and craft, not in their technical, but rather in their historical and artistic aspects: thus reference can be made to some original sketches which the Library possesses, by Vandevælde, and more recent pencil

works of Cristall, Duncan, Stanfield, &c., besides the coast studies of Prout, Cooke, and others.

In the List of Books already issued on "Renaissance, &c., Architecture," there is mention of theatres at p. 63; in this, at p. 66, other works bearing directly on the construction of theatres or of the machinery employed in them will be found; but reference should also be made to the previous List.

Architecture in wood, which has been in some degree dealt with in the "Renaissance," is further illustrated here, as far as regards constructive details, under the head of "Carpentry" at p. 24.

Farm-buildings will be more fully dealt with in the List of Books on Modern (19th cent.) Architecture which is in preparation.

Fountains and wells are not especially referred to here, as the sculptured and other designs, ornamental iron-work, and decorated well-heads formerly in use brought them within the scope of Lists already issued. (*See Sculpture*, p. 82, 2nd edit. 1886. *Metal-work* (1883) p. 140.)

In using the section "Materials employed in Construction," it will be necessary to refer to previous lists; terracotta, for example, is dealt with in "Pottery," pp. 137-9.

The titles in the following pages are in many instances somewhat abbreviated as in the classed Lists already published.

R. H. SODEN-SMITH.

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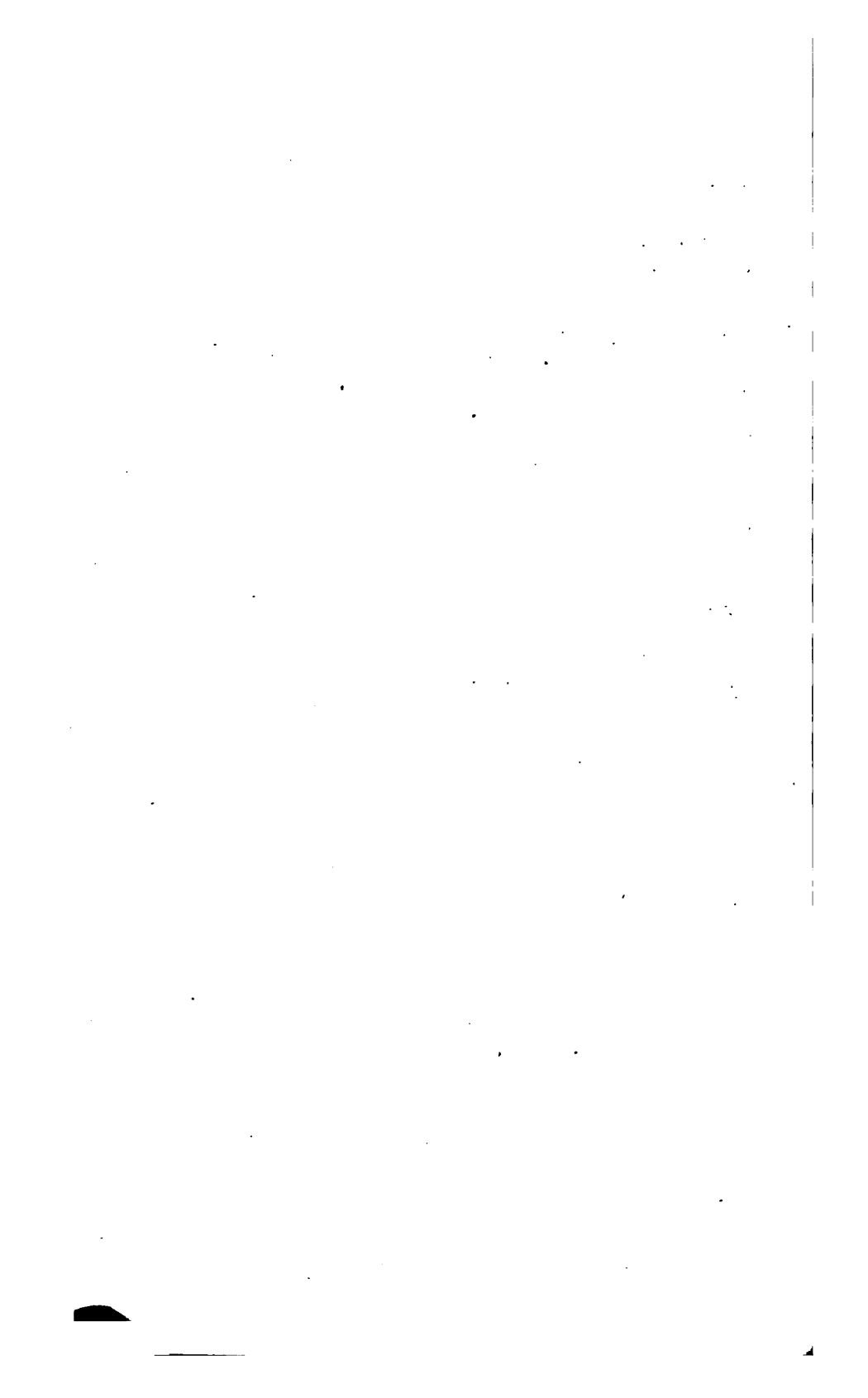
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a. *Serial Publications.*

AMERICAN ARCHITECT AND BUILDING NEWS, THE. A Weekly Journal of Construction and Decorative Art. fol. Boston, 1876, *et seq.*

ANNALES INDUSTRIELLES, Construction et Matériaux de Construction, Mécanique, Mines, &c. Text 4to, Atlas, fol. Paris, 1869, *et seq.*

ARCHITECT, THE. A Journal of Art, Civil Engineering, and Building. fol. London, 1869, *et seq.*

BRITISH ARCHITECT, THE. A National Record of the Æsthetic and Constructive Arts; and Business Journal of the Building Community. fol. London, 1874, *et seq.*

BUILDER, THE. A Journal for the Architect, Engineer, Operative, and Artist. fol. London, 1832, *et seq.*

BUILDER'S WEEKLY REPORTER. A Journal of Architecture, Engineering, &c. fol. London, 1856, *et seq.*

BUILDING NEWS, and Engineering Journal. 4to. London, 1857, *et seq.*

CIVIL ENGINEER AND ARCHITECT'S JOURNAL.

4to. London, 1837-67.

DALY (C.). *Revue générale de l'Architecture et des Travaux publics. Journal des architectes, des ingénieurs, &c.*

4to. Paris, 1840, *et seq.*

DUBLIN BUILDER, THE; or Illustrated Irish Architectural, Engineering, Mechanics', and Sanitary Journal.

4to. Dublin, 1859, *et seq.*

ENGINEERING AND BUILDING TIMES. Weekly illustrated Journal.

fol. London, 1871-1886.

FOREMAN ENGINEER AND DRAUGHTSMAN: and Record of their Associations. New S. 8vo. London, 1876, *etc.*

GAZETTE DES ARCHITECTES ET DU BÂTIMENT. *Revue bimensuelle. Woodcuts.*

4to. Paris, 1863-1886.

ILLUSTRATED CARPENTER AND BUILDER, THE.

4to. London, 1877, *et seq.*

INGÉNIEUR, L'. *Journal Scientifique des Travaux Européens.*

5 vols. 4to. Paris, 1854-1858.

IRISH BUILDER. Vol. IX. 1867, *etc.* See Dublin Builder.

KUGLER (F. T.). *Museum, Blätter für bildende Kunst.*

5 vols. 4to. Berlin, 1833-37.

LOUDON (J. C.). *Architectural Magazine and Journal of improvement in Architecture, Building, &c. Woodcuts.*

5 vols. 8vo. London, 1834-38.

MANGEANT (A.). *Journal de Menuiserie . . . destiné aux architectes, &c.*

4to. Paris, 1863-1885.

MANUFACTURER. *Inventions, Industry, &c.*

fol. London, 1876.

MONITEUR DES ARCHITECTES. *Recueil des Maisons de Ville et de Campagne, Edifices publics, &c.*

4to. Paris, 1847, *et seq.*

OPPERMANN (C. A.). *Nouvelles Annales de la Construction.*

4to. Paris, 1855, *et seq.*

SEMAINE DES CONSTRUCTEURS. *Journal illustrés des Travaux publics et privés, &c.*

fol. Paris, 1876, *et seq.*

SLOAN (S.). *Architectural Review and American Builders' Journal.*

8vo. Philadelphia, 1869.

TIMBER 'TRADES' JOURNAL, THE. 4to. London, 1873, &c.

ZEITSCHRIFT FÜR BAUWESEN. Text, 4to. Atlas of plates.
fol. Berlin, 1869, *et seq.*

b. *Dictionaries, Handbooks, Manuals, Text-books, Aides-memoire, Articles from Encyclopædias.*

ARCHITECTURAL PUBLICATION SOCIETY. Dictionary of
Architecture. Illustrations. fol. London, 1848, *et seq.*

ATCHLEY. Builder's Price Book, etc. 8vo. 1869.

BATAILLE (A.). Nouveau Manuel complet de la Construc-
tion moderne. Text, 18mo. 44 plates, 8vo. Paris, 1859.

BEATON (A. C.). Quantities and Measurements: how to
calculate and take them, in Bricklayers', Masons', Plas-
terers', Plumbers', &c. Work. 8vo. London, 1867.

— Pocket Technical Guide and Measurer for Builders
and Surveyors; with explanation of the terms used in
building-construction, &c. obl. 32mo. London, 1872.

BILLINGTON (J.). The Architectural Director, &c.
8vo. London, 1834.

BRITTON (J.). Dictionary of Architecture and Archæology
of the Middle Ages. (Illustrated.) 4to. London, 1838.

BURNELL (G. R.). Builder's and Contractor's Price Book
for 1864, etc. 12mo; also for 1875, 12mo. London, 1875.

CHABAT (P.). Dictionnaire des Termes employés dans la
Construction, et concernant la Connaissance et l'Emploi
de Matériaux, &c. 2 vols. 8vo. Paris, 1875-6.
Complément. 8vo. Paris, 1878.

CLAUDEL (J.). Introduction à la Science de l'Ingénieur,
Aide-Mémoire des Ingénieurs, des Architectes, &c. Partie
théorique. 4th ed. 8vo. Paris, 1866.

— Formules, Tables et renseignements, Aide-mémoire des
Ingénieurs, des Architectes, &c. 8vo. Paris, 1867.

CRESY (E.). Encyclopædia of Civil Engineering, historical,
theoretical, and practical. Plates. 8vo. London, 1856.

DAVY (C.). The Architect, Engineer, and Operative
Builder's Constructive Manual. Plates to scale.
8vo. London, 1839.

DEARN (T. D.). Bricklayer's Guide. 8vo. London, 1809.

DEMPSEY (G. D.). *The Builder's Guide: a practical manual* for the use of Builders, Clerks of Works, Professional Students, and others. 165 illustrations. 8vo. London, 1851.

2nd ed. with supplement, &c. 8vo. London, 1857.

DICTIONARY. *Engineering Terms. German-English and English-German.* Supplement to the Engineer, Jan. 29, 1869. 8vo. 1869.

— *Technical Terms. French-English and English-French.* From "Engineering," 1868. 8vo. 1868.

— *Dictionary of Terms of Architectural Design and Building Construction: practical descriptions, and French and German equivalents for the various terms.* 8vo. London, 1888.

DOWSING (W.). *Timber Merchant's and Builder's Companion; containing tables of the reduced weight and measures of deals and battens of all sizes.* 2nd ed. 8vo. London, Hull, 1858.

ENCYCLOPÆDIA BRITANNICA. (Building, Vol. IV., pp. 447–513; Mason Work, Vol. IV., pp. 468–76.) 9th ed. 24 vols. 4to. Edinburgh, 1875–88.

ENCYCLOPÆDIA, THE ENGLISH. (Masonry, Vol. XV., pp. 509–12.) 23 vols. 4to. London, 1854–62.

— **THE LONDON.** (Engineering, Vol. VIII., pp. 253–74.) 22 vols. text, and 2 vols. plates. 8vo. London, 1829.

FLETCHER (B.). *Dilapidations. Text-Book in tabulated form.* 8vo. London, 1872.

HALL (H.). *Vocabulary of Architectural Terms, in eight languages.* 8vo. (London, 1864.)

— *Vocabulary of Technical Terms, in eight languages—civil engineering and surveying, civil, ecclesiastical, and military architecture, &c.* obl. 16mo. London, 1865.

HASLUCK (P. N.). *The Pattern Maker's Handybook; Manual for Founders. Illustrated.* 8vo. London, 1887.

— *The Mechanic's Workshop Handybook.* 8vo. 1888.

HEBERT (L.). *The Engineer's and Mechanic's Encyclopedia: illustrations of the Machinery and Processes employed in Manufacture.* 2 vols. 8vo. London, 1856.

HURST (J. T.). *A Handbook of Formulæ, Tables, and Memoranda for Architectural Surveyors, &c.* obl. 24mo. London, 1865.

- JONES (R.). Every Builder his own Surveyor, or the Builder's Vade-Mecum. 2 plates. 8vo. London, 1809.
- KARMARSCH (K.). Handbuch der mechanischen Technologie. 3rd ed. 2 vols. 8vo. Hannover, 1857-58.
- KELLY'S BUILDER'S PRICE BOOK. 8vo. London, 1854.
- LAFEVER (M.). Modern Builder's Guide. Engravings. 4to. New York, 1833.
- LAXTON (H.). Examples of Building Construction; intended as an aide-memoire for the professional man and the operative, being a series of working drawings to a large scale, &c. 4 vols. Atlas. fol. London, 1854.
- LOWNDES (C.). Engineer's Handbook. 8vo. London, 1863.
- MOLESWORTH (G. L.). Pocket-book of Formulæ and Memoranda for Civil and Mechanical Engineers. 17th ed. obl. 24mo. London, 1871.
- NICHOLSON (P.). New and improved Practical Builder and Workman's Companion. Revised by Thomas Tredgold, . . . (Engravings.) 3 vols. 4to. London, 1848-50.
- OAKLEY (E.). Every man a compleat Builder. 51 plates. 8vo. London, 1766.
- PAIN (W.). Practical Builder, or Workman's General Assistant, &c. Plates. 4to. London, 1799.
- PARTINGTON (C. F.). The Builder's Complete Guide. 8vo. London, 1825.
- PEWTNER. Comprehensive Specifier. 8vo. London, 1870.
- PRACTICAL MAGAZINE. An illustrated Cyclopædia of industrial news, inventions, and improvements. 2 vols. 4to. London, (1873).
- RANKINE (W. J. M.). Manual of Civil Engineering. Diagrams. 4th ed. 8vo. London, 1865.
- REID (J.). Young Surveyor's Preceptor; Builder's Guide. Plates. 4to. London, 1859.
- REULEAUX (F.). Der Constructeur. Ein Handbuch zum Gebrauch beim Maschinen-Entwerfen. Für Maschinen- und Bau-Ingenieure, &c. 8vo. Braunschweig, 1869.
- ROBINSON (J. B.). The Builders' and Masons' Enquire Within; a Handy Book of Reference. 8vo. Derby, n.d.
- ROBSON (R.). Mason's, Bricklayer's, Plasterer's, and Decorator's Practical Guide. 4to. London, 1862.

RUMPF (C.) and MOTHES (O.). Dictionnaire Technologique Français-Allemand-Anglais, contenant les termes techniques employés dans les Arts et Métiers, etc.—Part II, English-German-French. 8vo. Wiesbade, 1868–70.

RYDE (E.). Text Book for the Use and Reference of Architects, Engineers, Surveyors, &c. 8vo. London, 1854.

SALMON (W.). The County Builder's Estimator. 12mo. London, 1770.

SIMON (J. D.). House Owner's Estimator; or, What will it cost to build, alter, or repair? Plates. 8vo. London, 1874.

SPON (E. and F. N.). Dictionary of Engineering, civil, mechanical, military, and naval. With illustrations. 8 vols. 8vo. London, 1869–74. Supplement. 1881.

— Spon's Encyclopædia of the Industrial Arts, Manufactures, and Commercial Products. 8vo. London, 1879, *et seq.*

TAYLOR'S BUILDERS' PRICE BOOK. Containing a Correct List of Prices for all Descriptions of Builder's Work, &c. 8vo. London, 1838.

TEMPLETON (W.). Engineer's, Millwright's, and Machinist's Practical Assistant. 3rd ed. 18mo. London, 1863.

TOUSSAINT (C. J.). Manuel complet d'Architecture . . . géometrie appliquée l'analyse des matériaux employés dans la construction, etc. (Manuels-Roret.) 2 vols. 18mo. Paris, 1857.

TRAUTWINE (J. C.). The Civil Engineer's Pocket Book of Mensuration, Trigonometry, Surveying, Hydraulics, . . . Principles of Wooden and Iron Roof and Bridge Trusses, &c. 12mo. Philadelphia, 1872.

VIOLLET-LE-DUC (E. E.). Dictionnaire raisonné de l'Architecture Française du XI^e au XVI^e siècle. Illustrations. 10 vols. 8vo. Paris, 1854–68.

WEALE (J.). Rudimentary Dictionary of Terms used in Architecture, Naval, Building and Construction, Engineering, Mining, Surveying, &c. 8vo. London, 1849–50.

4th ed., with additions, edited by R. Hunt. 12mo. London, 1873.

*c. Treatises, Courses of Instruction, Biographical Notices
of Engineers and their Works.*

ALBERTI (G. A.). Istruzioni pratiche per l'ingegnere civile, o sia perito agrimensore, e perito d'acque, &c. Plates. 4to. Venezia, 1782.

ASHPITEL (A.). Treatise on Architecture, including the Arts of Construction, Building, Stonemasonry, Arch, Carpentry, Roof, Joinery, and Strength of Materials. 55 plates. 4to. Edinburgh, 1867.

BAINES (T.). Yorkshire; with an Account of its Civil and Mechanical Engineering, &c. 4 vols. 4to. London, n.d.

— Lancashire and Cheshire; with an Account of the Civil and Mechanical Engineering. 2 vols in 4. London, Liverpool, 1852.

BECKMANN (J.). History of Inventions, Discoveries, and Origins, translated from the German. 3rd ed. 4 vols. 8vo. London, 1817.

BETHKE (H.). Architektonisches Allerlei. Enthaltend, Baudetails, neuere Dach- und Decken-Constructionen, &c. 20 plates. fol. Dresden, 1881.

BOW (R. H.). Economics of Construction in relation to Framed Structures. . . . Part I.—Classification of Structures. Part II.—Diagrams of Forces. 8vo. London, 1873.

BRUYÈRE (L.). Études relatives à l'art des Constructions. (Plates to scale.) 2 vols. fol. Paris, 1823–28.

CIVIL ENGINEERS, INSTITUTION OF. Charter, Bye-Laws, &c. of. 8vo. London, 1867.

Ditto. 8vo. London, 1873.

DEMANET (A.). Cours de Construction. Text, 2 vols., 8vo. Atlas, 61 plates, obl. fol. Paris, 1861–62.

DONALDSON (T. L.). Architectural Maxims and Theorems. 8vo. London, 1847.

DOWNING (S.). Elements of Practical Construction, for the use of Students of Engineering and Architecture. Text, 8vo. Atlas, fol. London, 1875.

- FAIRBAIRN (W.). History of Engineering, &c. by. *See*
Baines (T.). Lancashire, &c., n.d.
- Useful information for Engineers. Lectures delivered
before the working Engineers of Yorkshire and Lanca-
shire, &c. 3rd ed. 8vo. London, 1860.
- Another edition. 8vo. London, 1866.
- FLETCHER (B.). Dilapidations. 8vo. London, 1872.
- FOWLER (J.). The Education of the Civil Engineer. 4to.
(1866.) From the "Builder," Jan. 20 and 27, 1866.
- GERBIER (SIR B.). Counsel and Advice to all Builders.
12mo. London, 1664.
- GLADBACH (E.). Der Schweizer Holzstyl in seinen canton-
alen und constructiven Verschiedenheiten vergleichend
dargessellt mit Holzbauten Deutschlands.
4to. Darmstadt, 1863–68.
- Second series. 4to. Zürich, 1883–86.
- Vorlegeblätter zur Bauconstructionslehre. (Plates.)
4to. Zürich, 1868.
- GUMMOW (J. R.). Hints on House Building. Plates and
plans. 8vo. Wrexham, (1874).
- HOWE (R.). Construction. Designs for Details of Build-
ings, &c. 56 illustrations. Chatham, 1839, &c.
- HUMBER (W.). Record of the Progress of Modern Engi-
neering: comprising civil, mechanical, marine, hydraulic,
railway, bridge, &c., works. 2nd ed.
4to. London, 1864.
- JEEP (W.). Die Baumechanik. 4 parts. Woodcut illustra-
tions. 8vo. Leipzig, 1876.
- KERR (R.). On Ancient Lights. 8vo. London, 1865.
- LANCK (L.). Traité pratique de la Construction moderne
et description du Matériel employé par les Constructeurs.
2 vols. 4to. Paris, 1877.
- LARDNER (D.). Handbook of Natural Philosophy. Me-
chanics. With 357 illustrations. 8vo. London, 1855.
- LE MUET (P.). Manière de bien bâtir pour toute sorte de
personnes. Plates. fol. Paris, 1647.
- MECHANICAL ENGINEERS, INSTITUTION OF. Proceedings,
June, 1867. Paris Meeting. 8vo. London, 1867.

MÖLLER (G.). Beiträge zu der Lehre von den Constructionen. 40 plates. fol. Giessen, n.d.

MOSELEY (H.). Mechanical Principles of Engineering and Architecture. Illustrations. 8vo. London, 1843.

— Illustrations of Mechanics. 12mo. London, 1848.

— Theoretical and Practical Papers on Equilibrium &c. See Weale (J.). Bridges, &c. Vol. 1. 4 vols. 8vo. 1853.

PARKER (T. N.). Essay concerning the hanging and fastening of gates and wickets. 8vo. London, 1801.

RAMÉE (D.). Histoire de l'Origine des Inventions, des Découvertes et des Institutions humaines. 8vo. Paris, 1875.

RAVON (H.). De la responsabilité de l'Architecte et de la responsabilité de l'Entrepreneur. 8vo. Paris, 1872-73.

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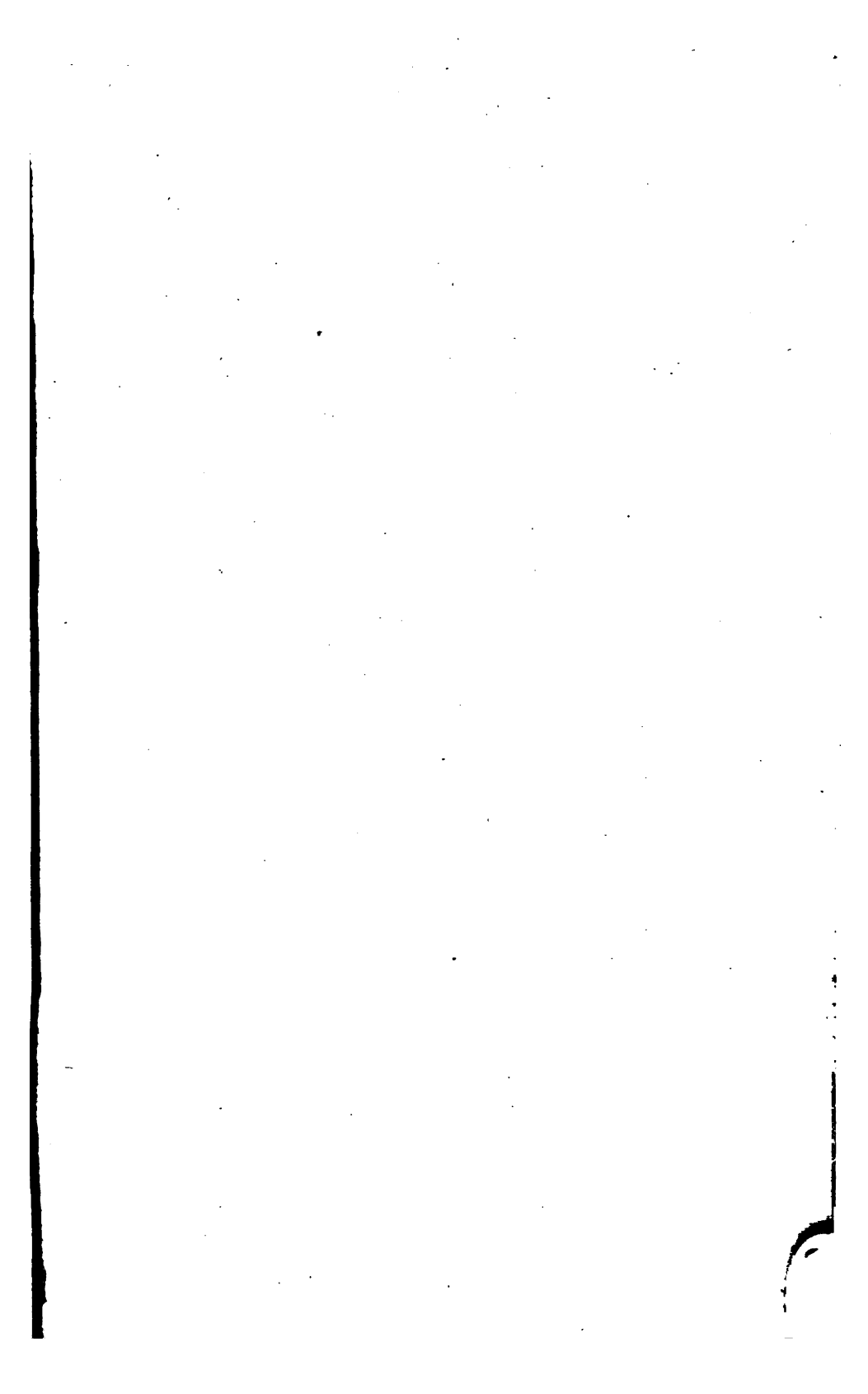
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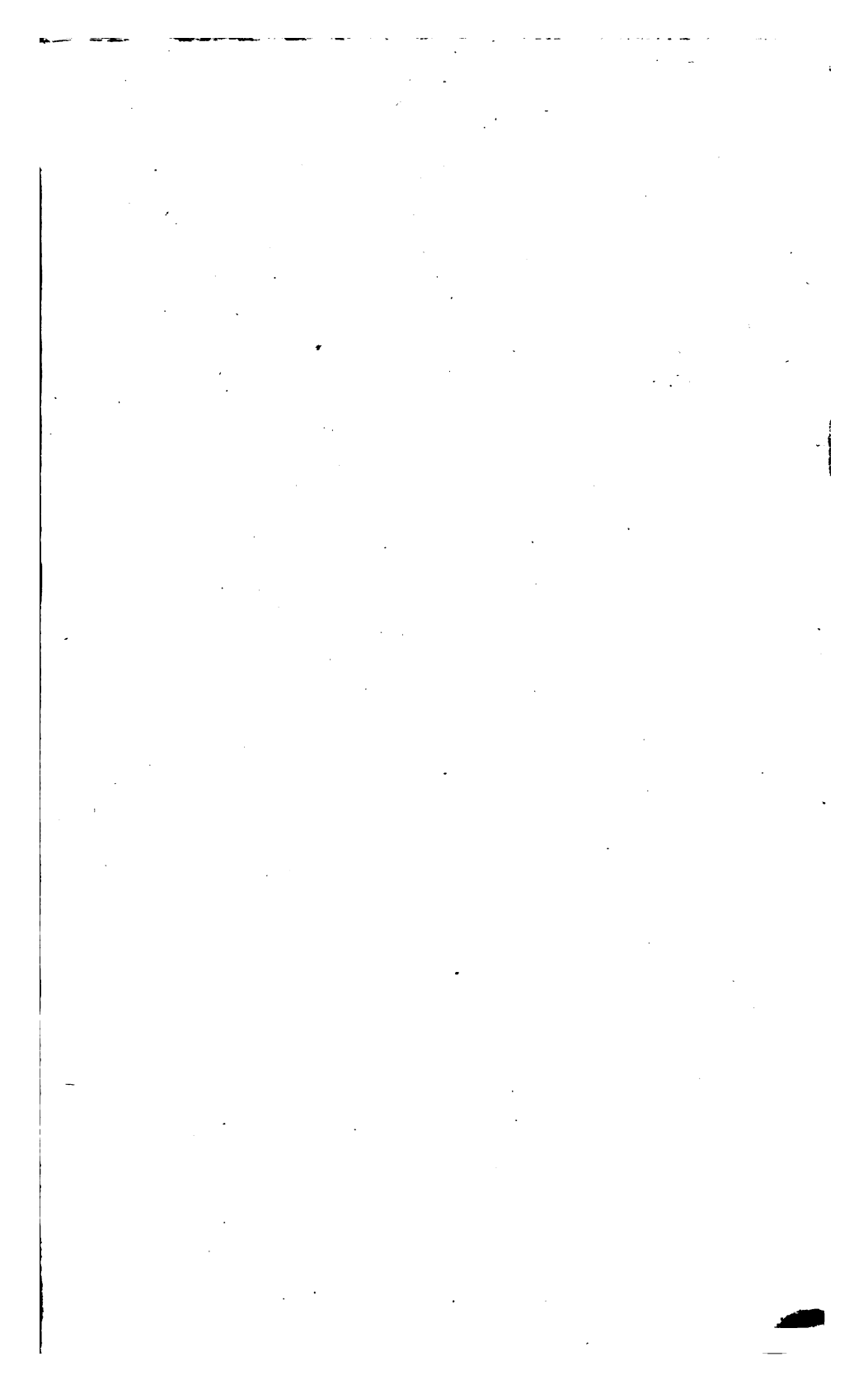
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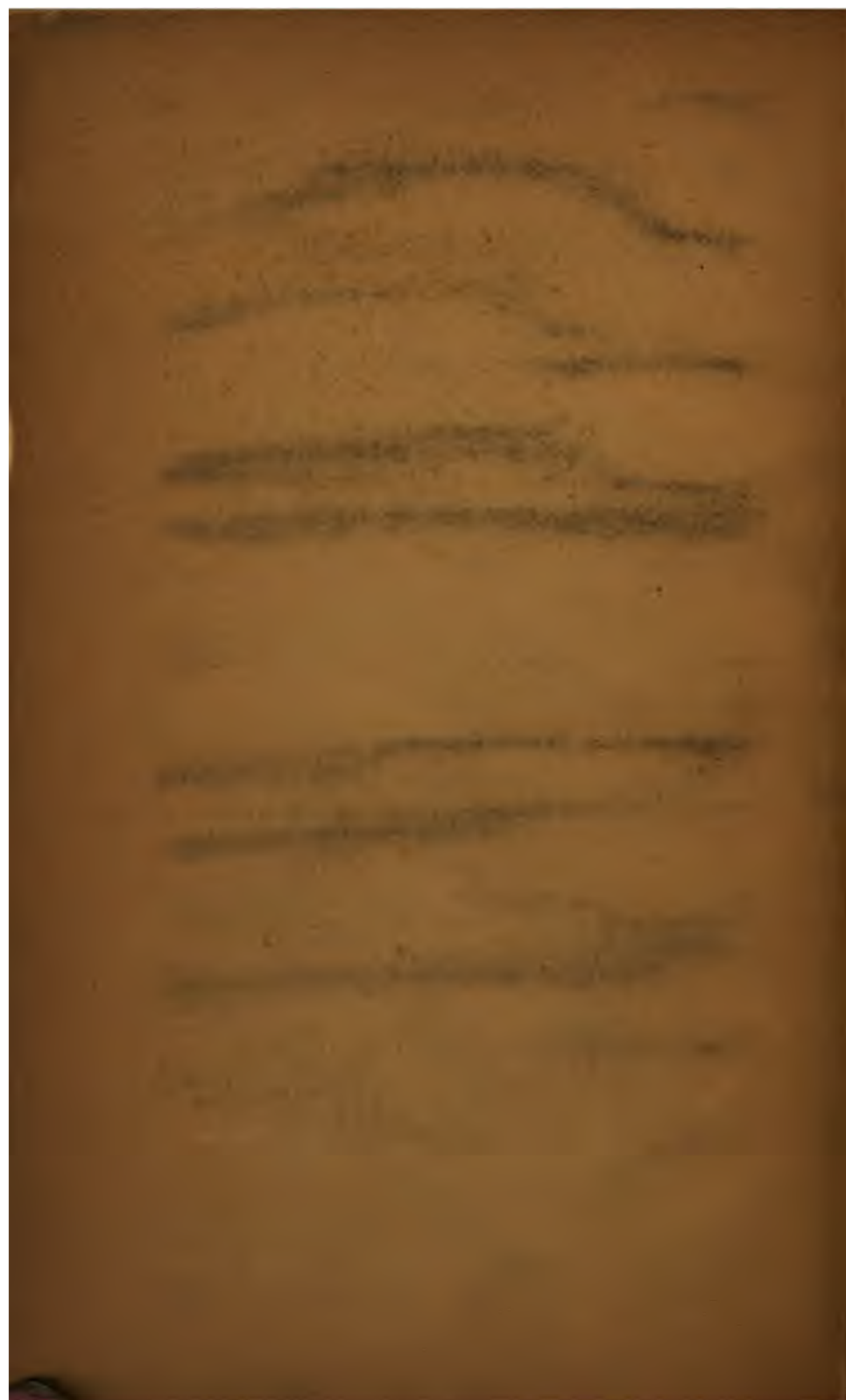
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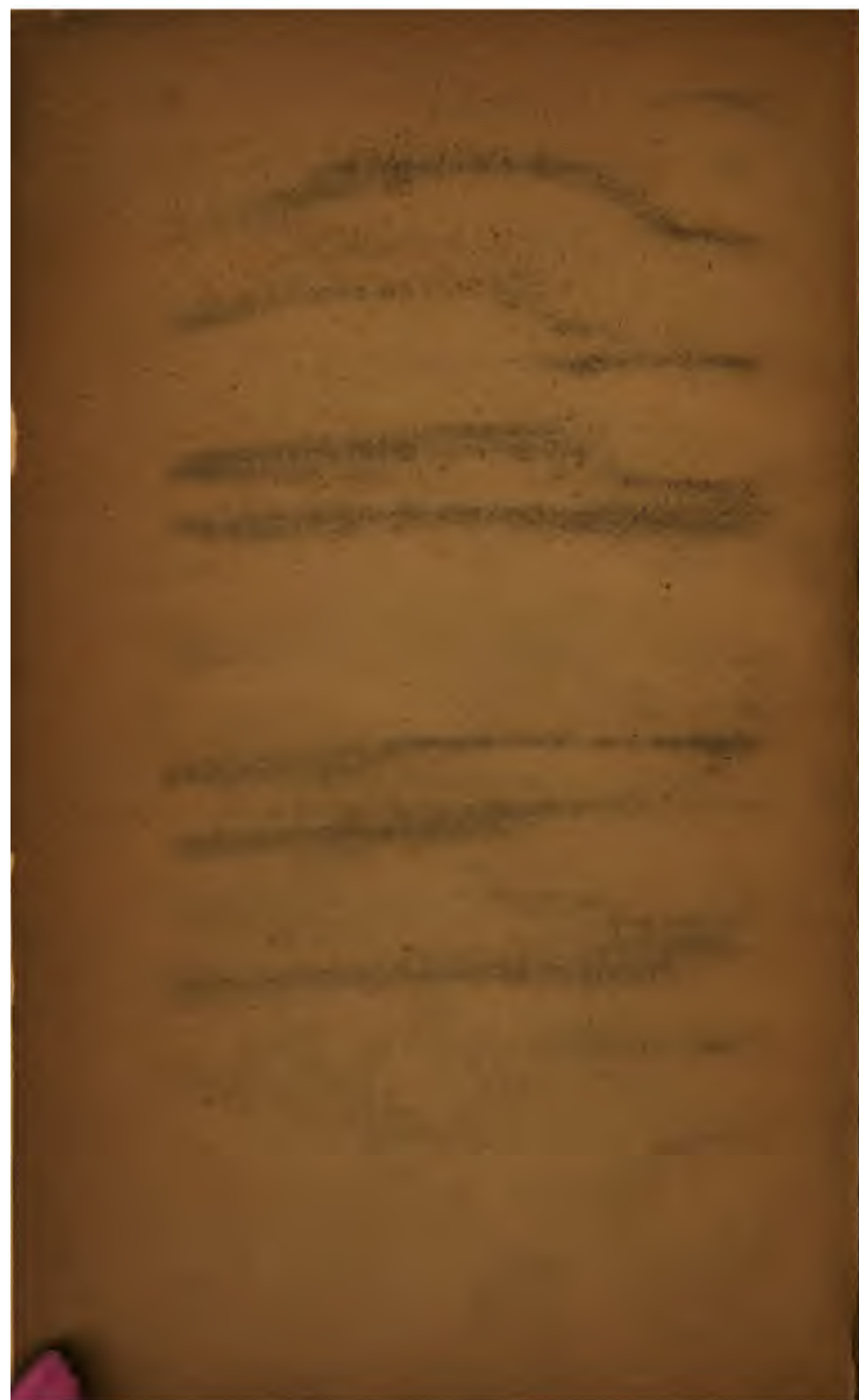
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